

CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

1. A data transferring apparatus for transferring transfer packets each including one or
5 more transfer data as objectives of transfer from a first apparatus to a second apparatus,
said each transfer data including commands indicating processes against a preliminarily
assigned area, said first apparatus including:

a scheduler for merging a plurality of said transfer data meeting a certain
requirement; and

- 10 a communication controller for generating transfer packets each including at least
one of one or more said transfer data whose amount is within a certain predetermined
range and one or more said merged transfer data,

said communication controller transferring said generated transfer packets to said
second apparatus.

- 15 2. A data transferring apparatus for transferring transfer packets each including one or
more transfer data as objectives of transfer from a first apparatus to a second apparatus,
said each transfer data including commands indicating processes against a preliminarily
assigned area, said first apparatus including:

means for merging a plurality of said transfer data meeting a certain requirement;

means for generating transfer packets each including at least one of one or more said transfer data whose amount is within a certain predetermined range and one or more said merged transfer data; and

means for transferring said generated transfer packets to said second apparatus.

- 5 3. The apparatus of claim 2, wherein said means for merging comprises a scheduler for judging whether an offset can be performed by merging an increment of data volume caused by a change of drawing commands.
4. The apparatus of claim 3, wherein if said scheduler judges that said offset is possible, then said scheduler changes the drawing commands.
- 10 5. The apparatus of claim 3, wherein said means for generating comprises a communication controller which generates said transfer packets which contain merged drawing commands which are more than a predetermined data volume in quantity.
6. The apparatus of claim 2, wherein said first apparatus comprises a computer and said second apparatus comprises a display apparatus.
- 15 7. A data transferring method for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily

assigned area, and said first apparatus being capable of:

merging a plurality of said transfer data meeting a certain requirement;

generating transfer packets each including at least one of one or more said transfer data whose amount is within a certain predetermined range and one or more said merged

5 transfer data; and

transferring said generated transfer packets to said second apparatus.

8. The method of claim 7, wherein said merging comprises judging whether an offset can be performed by merging an increment of data volume caused by a change of drawing commands.

10 9. The method of claim 8, wherein if said judging judges that said offset is possible, then the drawing commands are changed.

10. The method of claim 7, wherein said first apparatus comprises a computer and said second apparatus comprises a display apparatus.

11. A medium for mediating a program for transferring transfer packets each including
15 one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, and said first apparatus being capable of making a computer execute the steps of:

merging a plurality of said transfer data meeting a certain requirement;

generating transfer packets each including one or more said transfer data whose amount is within a certain predetermined range and/or one or more said merged transfer data; and

5 transferring said generated transfer packets to said second apparatus.

12. The medium of claim 11, wherein said merging comprises judging whether an offset can be performed by merging an increment of data volume caused by a change of drawing commands.

13. The medium of claim 12, wherein if said judging judges that said offset is possible,
10 then the drawing commands are changed.

14. The medium of claim 12, wherein said first apparatus comprises a computer and said second apparatus comprises a display apparatus.